

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 4475 | (711/4,111,112,114).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/21 19:59 |
| L2    | 3234 | L1 and @ad < "20030113"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/21 19:59 |
| L3    | 380  | L2 and (virtual near3 (volume disk))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/21 19:59 |
| L4    | 68   | L3 and (sector with (size length))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/21 19:59 |
| L5    | 69   | (virtual with (disk volume)) and<br>(virtual near sector) and @ad <<br>"20030113"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/21 20:00 |
| L6    | 16   | (virtual with (disk volume)) and<br>((virtual near sector) same<br>(physical near sector)) and @ad <<br>"20030113"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/21 20:10 |
| L7    | 7    | (virtual with (disk volume)) and<br>(((virtual logical) near sector near<br>(size length)) same (physical near<br>sector near (size length))) and @ad<br>< "20030113" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/21 20:56 |
| L8    | 55   | ((ata with (drive disk)) with<br>advantage) and @ad < "20030113"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/21 20:57 |
| S1    | 0    | (10/702137).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/10/18 15:07 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S2  | 1    | 10/702137  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/18 16:52 |
| S3  | 3642 | (711/111,112,114).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/18 16:53 |
| S4  | 3935 | (711/4,111,112,114).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/18 16:55 |
| S6  | 3101 | S4 and @ad < "20030113"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/18 18:59 |
| S7  | 0    | S6 and (storage near shelf near rout\$3)                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/18 16:57 |
| S8  | 12   | (storage near shelf near rout\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/18 16:58 |
| S9  | 354  | S6 and (virtual near3 (volume disk))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/18 19:36 |
| S10 | 66   | S9 and (sector with (size length))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/19 11:01 |
| S11 | 251  | (virtual with (disk volume)) and (virtual with sector) and @ad < "20030113"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/19 19:17 |
| S12 | 190  | (virtual with (disk volume)) and (virtual near5 sector) and @ad < "20030113" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/18 19:21 |

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|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S13 | 67   | (virtual with (disk volume)) and (virtual near sector) and @ad < "20030113"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/18 19:23 |
| S14 | 14   | (virtual with (disk volume)) and ((virtual near sector) same (physical near sector)) and @ad < "20030113"                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/18 19:25 |
| S15 | 9    | (virtual with (disk volume)) and (((virtual logical) near sector near4 (size length))) same (physical near sector)) and @ad < "20030113" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/18 19:25 |
| S16 | 7    | S9 and (fibre fiber) and (ATA)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/18 19:36 |
| S17 | 3935 | (711/4,111,112,114).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/19 11:01 |
| S18 | 3101 | S17 and @ad < "20030113"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/19 11:01 |
| S19 | 354  | S18 and (virtual near3 (volume disk))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/19 11:01 |
| S20 | 50   | S19 and (( virtual with (sector block)) with (size length))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/19 17:31 |
| S21 | 182  | steinmetz-j\$.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/19 17:31 |
| S22 | 42   | steinmetz-joseph\$.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/19 17:35 |

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|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S23 | 0   | murthy-kompella\$.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/19 17:36 |
| S24 | 159 | murthy-k\$.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/19 17:36 |
| S25 | 0   | murthy-kom\$.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/19 17:36 |
| S26 | 8   | murthy-ko\$.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/19 17:37 |
| S27 | 13  | kompella-m\$.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/19 17:37 |
| S28 | 1   | wakely-matthew\$.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/19 17:38 |
| S29 | 30  | wakeley-matthew\$.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/19 17:38 |
| S30 | 18  | (US-20040148461-\$ or<br>US-20030070043-\$ or<br>US-20030005248-\$ or<br>US-20020174296-\$ or<br>US-20040233910-\$ or<br>US-20030135709-\$ or<br>US-20020186961-\$ or<br>US-20020023225-\$ or<br>US-20030120864-\$ or<br>US-20020065982-\$ or<br>US-20020029326-\$ or<br>US-20020026558-\$).did. or<br>(US-5430855-\$ or US-5394532-\$ or<br>US-5072378-\$ or US-6834326-\$ or<br>US-6948044-\$ or US-5778411-\$).<br>did. | US-PGPUB;<br>USPAT                                      | OR | ON | 2005/10/19 17:58 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S31 | 3   | S30 and (fiber fibre) and ata and (integrated ic chip semiconductor)   | US-PGPUB; USPAT                             | OR | ON | 2005/10/20 19:03 |
| S32 | 17  | S30 and (size length)  | US-PGPUB; USPAT                             | OR | ON | 2005/10/19 18:16 |
| S33 | 754 | disk with sector with (crc ecc checksum) and @ad < "20030113"  | US-PGPUB; USPAT                             | OR | ON | 2005/10/19 18:36 |
| S34 | 66  | disk with (logical near4 sector) with (crc ecc checksum) and @ad < "20030113"  | US-PGPUB; USPAT                             | OR | ON | 2005/10/19 19:17 |
| S35 | 66  | disk with ((logical virtual)near4 sector) with (crc ecc checksum) and @ad < "20030113"   | US-PGPUB; USPAT                             | OR | ON | 2005/10/19 18:24 |
| S36 | 78  | (disk with sector with (crc ecc checksum) with (size length)) and @ad < "20030113"   | US-PGPUB; USPAT                             | OR | ON | 2005/10/19 18:39 |
| S37 | 0   | ("2003/0131280").URPN.   | USPAT                                       | OR | ON | 2005/10/19 18:38 |
| S38 | 94  | (disk with sector with (crc ecc checksum parity) with (size length)) and @ad < "20030113"  | US-PGPUB; USPAT                             | OR | ON | 2005/10/19 18:40 |
| S39 | 31  | (disk same (logical near2 sector) with (physical near2 sector) with (size length)) and @ad < "20030113"                                | US-PGPUB; USPAT                             | OR | ON | 2005/10/19 19:18 |
| S40 | 220 | (disk with controller with (ic integrated semiconductor chip)) and (logical same physical same sector) and @ad < "20030113"            | US-PGPUB; USPAT                             | OR | ON | 2005/10/20 19:05 |
| S41 | 17  | S40 and ATA and (fibre fiber)  | US-PGPUB; USPAT                             | OR | ON | 2005/10/21 15:12 |
| S42 | 46  | (longitudinal adj redundancy adj code)   | US-PGPUB; USPAT                             | OR | ON | 2005/10/21 15:14 |
| S43 | 42  | S42 and @ad < "20030113"   | US-PGPUB; USPAT                             | OR | ON | 2005/10/21 15:14 |
| S44 | 46  | ((disk with controller) same ((fiber fibre) near channel) same (rout\$3)) and @ad < "20030113"   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/21 16:42 |
| S45 | 54  | ((disk with controller) same ((fiber fibre) near channel) same (IC (integrated near circuit) chip asic lsi vlsi)) and @ad < "20030113" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/21 16:44 |